

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/674,587	09/30/2003	Paul J. Bobrowski	PHMC0745-021	5390
26948 75	590 03/21/2006		EXAMINER	
ELLIS & VEI		MCCORMICK EWOLDT, SUSAN BETH		
SUITE 1875	IKST AVE.		ART UNIT	PAPER NUMBER
PHOENIX, AZ	Z 85003	1655		

DATE MAILED: 03/21/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

		Appl	ication No.	Applicant(s)				
Office Action Summary		'''	74,587	BOBROWSKI, PAUL J.				
			niner	Art Unit				
		SB	McCormick-Ewoldt	1655				
	The MAILING DATE of this communic				idress			
Period fo				•				
WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FO CHEVER IS LONGER, FROM THE MA asions of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this commu period for reply is specified above, the maximum state to reply within the set or extended period for reply we reply received by the Office later than three months afted patent term adjustment. See 37 CFR 1.704(b).	ALING DATE Of 37 CFR 1.136(a). In nication. It ory period will apply ill, by statute, cause the status of the course of the	F THIS COMMUNICATION no event, however, may a reply be time and will expire SIX (6) MONTHS from application to become ABANDONE	N. nely filed the mailing date of this co D (35 U.S.C. § 133).				
Status								
1)⊠	Responsive to communication(s) filed	l on 13 Februar	v 2006.					
·	This action is FINAL . 2b) This action is non-final.							
	, —							
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
4)⊠ Claim(s) <u>1-2, 4-29</u> is/are pending in the application.								
	4a) Of the above claim(s) 11-19 is/are withdrawn from consideration.							
	5) Claim(s) is/are allowed.							
6)⊠	∑ Claim(s) <u>1,2,4-10 and 20-29</u> is/are rejected.							
7)	Claim(s) is/are objected to.							
8)□	Claim(s) are subject to restrict	ion and/or elect	ion requirement.					
Applicati	on Papers							
9)[]	The specification is objected to by the	Examiner						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority ι	ınder 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:								
	1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No								
	3. Copies of the certified copies of the priority documents have been received in this National Stage							
	application from the Internation	•	• ••					
* See the attached detailed Office action for a list of the certified copies not received.								
Attachmen	t(s)		_					
	e of References Cited (PTO-892)	O 048)	4) Interview Summary Paper No(s)/Mail Da					
3) 🔲 Inform	e of Draftsperson's Patent Drawing Review (PT mation Disclosure Statement(s) (PTO-1449 or P		5) Notice of Informal P		O-152)			
Paper No(s)/Mail Date 6)								

Art Unit: 1655

DETAILED ACTION

The communication of February 13, 2006 is hereby acknowledged.

Applicant elected Group I without traverse in the reply filed on March 10, 2005. Claims 11-19 have been withdrawn from further consideration.

Claims Pending

Claims 1-2, 4-29 are pending. Claims 1-2, 4-10 and 20-29 will be examined.

Claim Objections

Claims 1, 20 and 28 objected to because of the following informalities: the term "Euphorbaciae" and "Euphorbacea" appear to be misspelled. Applicant could mean --Euphorbaceae-- . Appropriate correction is required.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 1-2, 4-10 and 20-29 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

Written Description

The claims are drawn to the genus *Croton* and methods of extracting the claimed Croton plant. In analyzing whether the written description requirement is met for genus claims, it is determined whether a representative number have been described. In this case, the one disclosed embodiment is not representative of the enormous number of plants claimed. The genus *Croton* contains several hundreds of different plant species. The specification provides plants of the

Application/Control Number: 10/674,587

Art Unit: 1655

genus Croton. Therefore, Applicant is not in possession of the claimed plant at the time this application was filed and lacks an adequate written description.

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1, 5 and 9 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 9 recites the limitation "the proanthocyanidin" in line 1. There is insufficient antecedent basis for this limitation in the claim.

Because claim 9 depend either directly or indirectly upon claims 1 and 5, these claims are also indefinite.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-2, 4-10 and 20-29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ubillas *et al.* ("SP-303, an Antiviral Oligomeric Proanthoycanidin from the Latex of *Croton lechleri* (Sangre de Drago," Phytomedicine Vol.1/1994, pp. 77-106) in view of Hecker *et al.* (US 4,716,179) in view of Winter *et al.* (US 5,474,782).

Ubillas et al. ("SP-303, an Antiviral Oligomeric Proanthoycanidin from the Latex of Croton lechleri (Sangre de Drago,") disclose extracting latex from Croton lechleri by adding isopropanol to the latex, which resulted in a biphasic mixture. The solution was evaporated to dryness and precipitated with ethyl acetate. Ubillas et al. did UV absorption on the solution to show homogeneity. (See page 81, columns 1-2; page 82, column 1).

Application/Control Number: 10/674,587

Art Unit: 1655

Ubillas *et al.* did not disclose wherein the layers were specifically hydrophilic and lipophilic or wherein the drying agent was magnesium sulfate or wherein reducing the proanthcyanidin to about 90% relative to the parent latex.

Hecker et al. (US 4,716,179) disclose that magnesium sulfate is used as a drying agent (column 5, lines 27-28).

Cragoe *et al.* (US 4,061,643) disclose that magnesium sulfate is used as a drying agent (column 14, line 68).

One of ordinary skill in the art would have been motivated to separate the layers to obtain the desired solution and then evaporate the organic solvent to obtain a purer form of the solution. Although Ubillas does not disclose reducing the proanthocyanidin content to about 90% to the parent latex, one would keep extracting the solution until the required solution is obtained. It was clear from Ubillas that when extracting the latex that the mixture was naturally separated into layers (i.e. biphasic). It was further clear from Hecker that magnesium sulfate is used as drying agent. It was further clear from Cragoe that sodium sulfate is used as a drying agent. Therefore, one of ordinary skill in the art would have had a reasonable expectation that extracting the latex with an organic solvent, one would be able to obtain separate layers and then evaporate off the organic solvent to obtain the desired layer.

Summary

No claim is allowed.

Correspondence

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Susan B. McCormick-Ewoldt whose telephone number is (571) 272-0981. The Examiner can normally be reached Monday through Thursday from 6:00 a.m. to 4:30 p.m.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiners' supervisor, Terry McKelvey, can be reached at (571) 272-0775. The official fax number for the group is (571) 273-8300.

Application/Control Number: 10/674,587

Art Unit: 1655

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

sbme

PATRICIA LEITH
PRIMARY EY SMINER

Page 5